# STIC Search Report
## Biotech-Chem Library

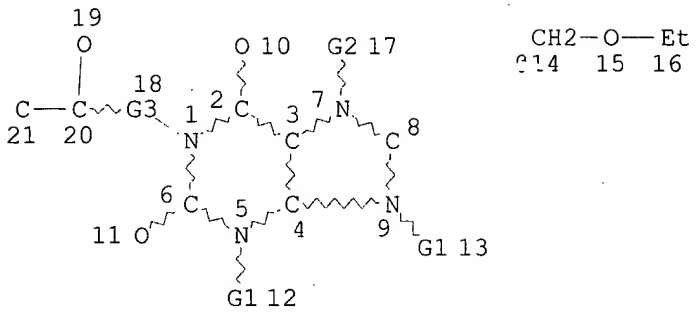
STIC Database Tracking Number: 103003

| | |
|---|---|
| **TO: Mojdeh Bahar**<br>**Location: CM1/3E11&2B19**<br>**Art Unit: 1617**<br>**Friday, September 05, 2003**<br><br>**Case Serial Number: 09/544984** | **From: David Schreiber**<br>**Location: Biotech-Chem Library**<br>**CM1-6A03**<br>**Phone: 308-4292**<br><br>**david.schreiber@uspto.gov** |

## Search Notes

Bahar 09/544,984

=> d que 123
L8 STR



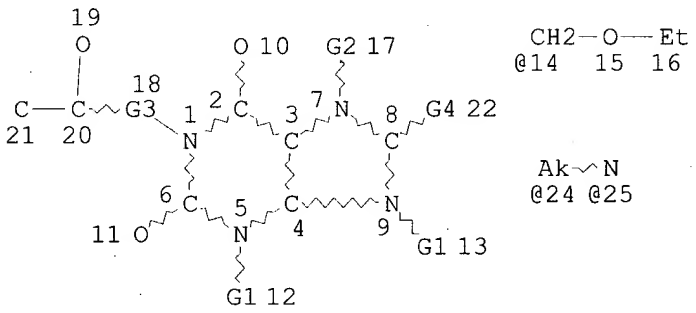

L8
Main structure
without limitations
for Z in claims

VAR G1=H/CH3
VAR G2=H/CH3/14
REP G3=(3-7) C
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 10
CONNECT IS E1 RC AT 11
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE
L10 53 SEA FILE=REGISTRY SSS FUL L8 ← structures found for L8
L20 STR

L20
Substructure with
limitations for Z




VAR G1=H/CH3
VAR G2=H/CH3/14
REP G3=(3-7) C
VAR G4=N/24/25
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 10
CONNECT IS E1 RC AT 11
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

Search completed by David Schreiber 308-4292

Bahar 09/544,984

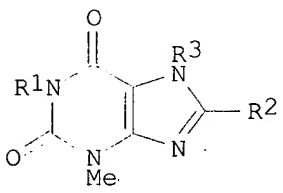
L22 15 SEA FILE=REGISTRY SUB=L10 SSS FUL L20 ← structures found for L20
L23 3 SEA FILE=HCAPLUS L22 ← 3 references having these structures in L22

=> d ibib abs hitstr l23 1-3

L23 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:575761 HCAPLUS
DOCUMENT NUMBER: 137:140535
TITLE: Preparation of tricyclic fused xanthines for treatment of disorders affected by cytokine intracellular signaling.
INVENTOR(S): Gong, Baoqing; Klein, J. Peter; Coon, Michael
PATENT ASSIGNEE(S): Cell Therapeutics, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 32 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 2002103211 | A1 | 20020801 | US 2000-725016 | 20001129 |
| US 6586429 | B2 | 20030701 | | |
| WO 2002068421 | A2 | 20020906 | WO 2001-US43048 | 20011109 |
| WO 2002068421 | A3 | 20030731 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 2003162801 | A1 | 20030828 | US 2003-349935 | 20030124 |

PRIORITY APPLN. INFO.: US 2000-725016 A 20001129
OTHER SOURCE(S): MARPAT 137:140535
GI

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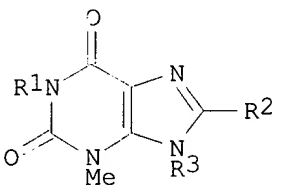


II

AB Title compds. [I, II; R1 = H, (substituted) alkyl, alkenyl, alkynyl, hydroxyalkyl, cyanoalkyl, alkoxy, alkoxyalkyl; R2R3 = atoms to form a (substituted) heterocyclyl], were prepd. Thus, to (R)-7,8-dihydro-3-(5-hydroxyhexyl)-1-methyl-1H-imidazo[2,1-f]purine-2,4(3H,6H)-dione (CT-13430) and imidazole in DMF was added tert-butyldimethylsilyl chloride. Stirring

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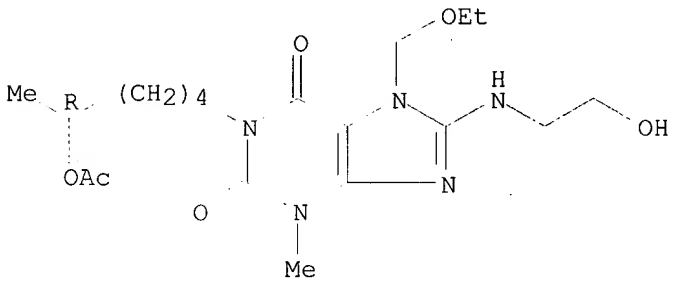
for 16 h gave 100% (R)-7,8-dihydro-1-methyl-3-(5-tert-butyldimethylsilyloxyhexyl)-1H-imidazo[2,1-f]purine-2,4(3H,6H)-dione, which with p-dimethylaminopyridine in CH2Cl2 was treated with Ac2O. Stirring at room temp. for 2 h followed by chromatog. gave 67% (R)-8-acetyl-7,8-dihydro-1-methyl-3-(5-tert-butylidimethylsilyloxyhexyl)-1H-imidazo[2,1-f]purine-2,4(3H,6H)-dione. The latter in MeOH was treated with HCl in Et2O. After stirring at room temp. for 30 min, the reaction mixt. was treated with Et3N. Concn. under reduced pressure gave a white solid which was treated with H2O and stirred for 1 h. The solid was filtered, washed with H2O, and dried under vacuum to provide (R)-8-acetyl-7,8-dihydro-3-(5-hydroxyhexyl)-1-methyl-1H-imidazo[2,1-f]purine-2,4(3H,6H)-dione (CT-30260). CT-30260 suppressed Th1 differentiation by blocking IL-12 signalling with IC50 = 9 .mu.M.

IT **444602-76-0P 444602-77-1P 444602-78-2P**
**444602-84-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of tricyclic fused xanthines for treatment of disorders affected by cytokine intracellular signaling)

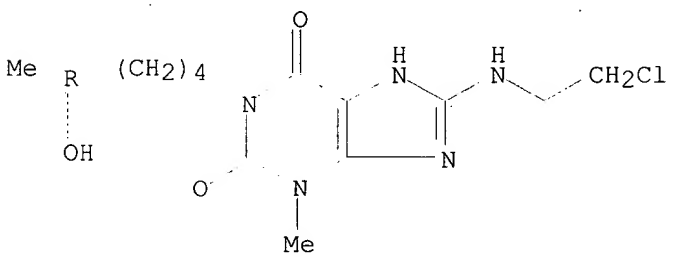
RN 444602-76-0 HCAPLUS
CN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetyloxy)hexyl]-7-(ethoxymethyl)-3,7-dihydro-8-[(2-hydroxyethyl)amino]-3-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



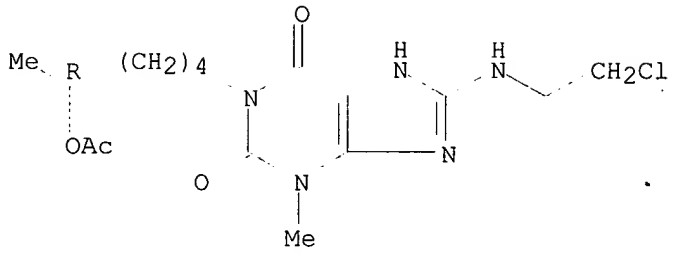

RN 444602-77-1 HCAPLUS
CN 1H-Purine-2,6-dione, 8-[(2-chloroethyl)amino]-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



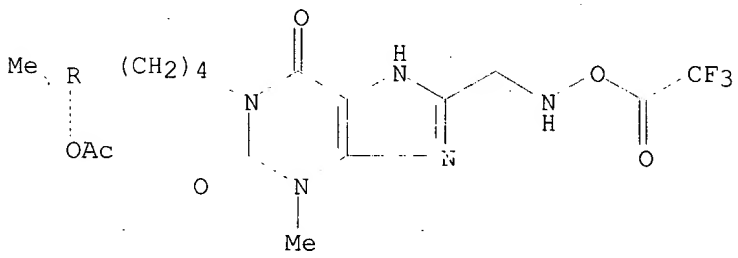

RN 444602-78-2 HCAPLUS
CN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetyloxy)hexyl]-8-[(2-chloroethyl)amino]-3,7-dihydro-3-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 444602-84-0 HCAPLUS
CN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetyloxy)hexyl]-3,7-dihydro-3-methyl-8-[[[(trifluoroacetyl)oxy]amino]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



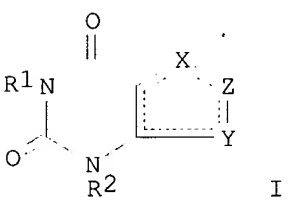
L23 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:172492 HCAPLUS
DOCUMENT NUMBER: 136:232165
TITLE: Preparation of xanthine derivatives and analogs as cell signaling inhibitors
INVENTOR(S): Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 143 pp., Cont.-in-part of U. S. Ser. No. 8,020, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 2002028823 | A1 | 20020307 | US 1999-288556 | 19990409 |
| US 6469017 | B1 | 20021022 | US 1998-8020 | 19980116 |
| WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,

Search completed by David Schreiber 308-4292

CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
EP 1171442 A1 20020116 EP 2000-921774 20000407
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO
JP 2002541258 T2 20021203 JP 2000-610854 20000407
PRIORITY APPLN. INFO.: US 1998-8020 B2 19980116
US 1995-483871 A2 19950607
US 1995-486264 A2 19950607
US 1999-288556 A2 19990409
WO 2000-US9139 W 20000407
OTHER SOURCE(S): MARPAT 136:232165
GI



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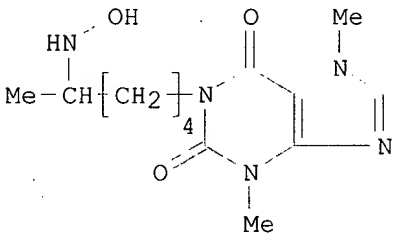


II

AB Therapeutic compds. I [R1 = H, Me, (un)substituted C5-9-alkyl, C5-9-alkenyl, C5-9-alkynyl, C3-8-hydroxyalkyl, C3-8-alkoxy, C5-9-alkoxyalkyl; R2, R3 = H, halo, oxo, (un)substituted C1-20-alkyl, C1-20-hydroxyalkyl, C(1-20)thioalklyl, C1-20-alkylamino, C1-20-alkylaminoalkyl, C1-20-aminoalkyl, C1-20-aminoalkoxyalkenyl, C1-20-aminoalkoxyalkynyl, C1-20-diaminoalkyl, C1-20-triaminoalkyl, C1-20-tetraaminoalkyl, C5-15-aminotrialkoxyamino, C1-20-alkylamido, C1-20-alkylamidoalkyl, C1-20-amidoalkyl, C1-20-acetamidoalkyl, C1-20-alkenyl, C1-20-alkynyl, C3-8-alkoxyl, C1-11-alkoxyalkyl, and C1-20-dialkoxyalkyl; with the proviso that R1 .noteq. .omega.-1 secondary alc. substituted C5-8-alkyl; X, Y = NR3, R3 = C1-3-alkyl; Z = CR3, R3 = C1-3-alkyl; dashed lines are single or double bonds] pharmaceutically acceptable derivs. (e.g., resolved enantiomers, diastereomers, tautomers, salts and solvates thereof) or prodrugs thereof are described. Thus, CT 7549 (II) was prepd. via redn of 1-(5-oximinohexyl)-3,7-dimethylxanthine using sodium cyanoborohydride in methanol. These novel heterocyclic compds. I having a six membered ring structure fused to a five membered ring structure are found to be useful for the treatment and prevention of symptoms or manifestations assocd. with disorders affected by Interleukin-12 ("IL-12") intracellular signaling, such as, for example, Th1 cell-mediated disorders.

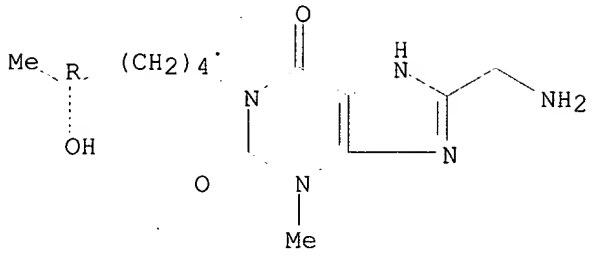
IT **301536-55-0P**, CT 12440 **301536-56-1P**, CT 12441
**301536-57-2P**, CT 12447 **301536-64-1P**, CT 12481
**403477-24-7P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of xanthine derivs. and analogs as cell signaling inhibitors)

RN 301536-55-0 HCAPLUS

CN 1H-Purine-2,6-dione, 8-(aminomethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl- (9CI) (CA INDEX NAME)

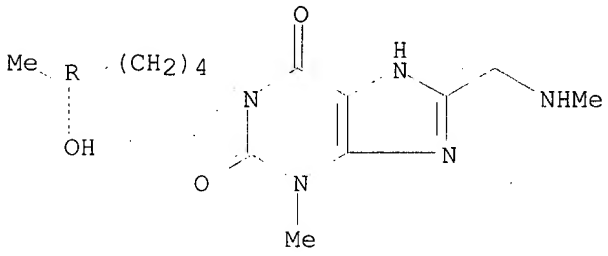
Bahar 09/544,984

Absolute stereochemistry.



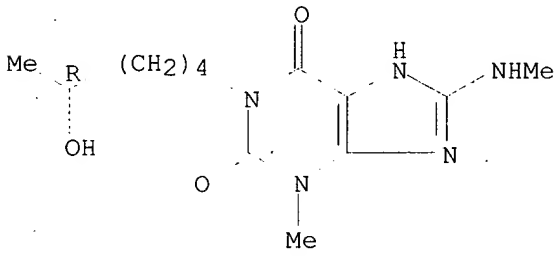
RN 301536-56-1 HCAPLUS
CN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-8-[(methylamino)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 301536-57-2 HCAPLUS
CN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-8-(methylamino)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 301536-64-1 HCAPLUS
CN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3,7-dimethyl-8-(methylamino)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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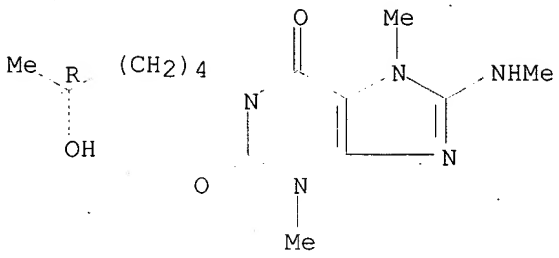
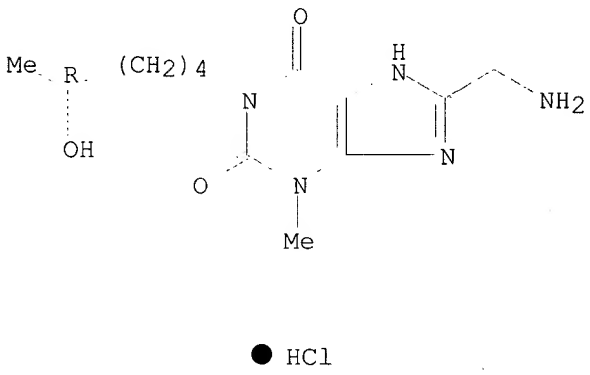


RN 403477-24-7 HCAPLUS
CN 1H-Purine-2,6-dione, 8-(aminomethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

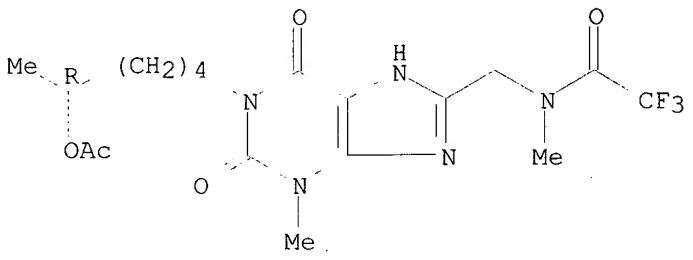
Absolute stereochemistry.



● HCl

IT **301329-00-0P 301329-01-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of xanthine derivs. and analogs as cell signaling inhibitors)
RN 301329-00-0 HCAPLUS
CN Acetamide, N-[[1-[(5R)-5-(acetyloxy)hexyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]methyl]-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

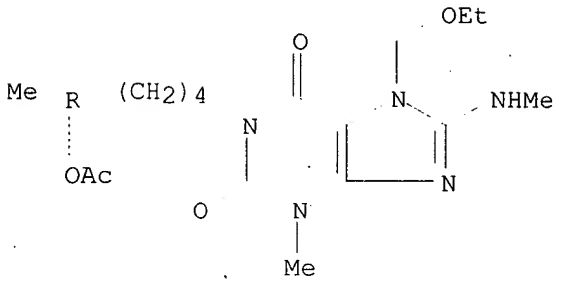
Absolute stereochemistry.



RN 301329-01-1 HCAPLUS
CN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetyloxy)hexyl]-7-(ethoxymethyl)-3,7-dihydro-3-methyl-8-(methylamino)- (9CI) (CA INDEX NAME)

Bahar 09/544,984

Absolute stereochemistry.




L23 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:742096 HCAPLUS
DOCUMENT NUMBER: 133:296325
TITLE: Preparation of xanthine derivatives and analogs as cell signaling inhibitors
INVENTOR(S): Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
PATENT ASSIGNEE(S): Cell Therapeutics, Inc., USA
SOURCE: PCT Int. Appl., 146 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
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| RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 6100271 | A | 20000808 | US 1995-483871 | 19950607 |
| US 6103730 | A | 20000815 | US 1995-486264 | 19950607 |
| US 2002028823 | A1 | 20020307 | US 1999-288556 | 19990409 |
| EP 1171442 | A1 | 20020116 | EP 2000-921774 | 20000407 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002541258 | T2 | 20021203 | JP 2000-610854 | 20000407 |

PRIORITY APPLN. INFO.:

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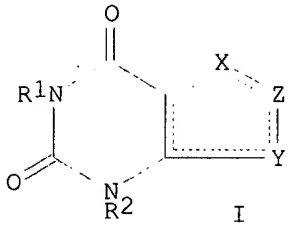
| US 1995-483871 | A2 | 19950607 |
| US 1995-486264 | A2 | 19950607 |
| US 1999-288556 | A2 | 19990409 |
| US 1994-199368 | B2 | 19940218 |
| US 1994-217051 | B1 | 19940324 |
| US 1998-8020 | B2 | 19980116 |
| WO 2000-US9139 | W | 20000407 |

OTHER SOURCE(S): MARPAT 133:296325
GI

Search completed by David Schreiber 308-4292



I

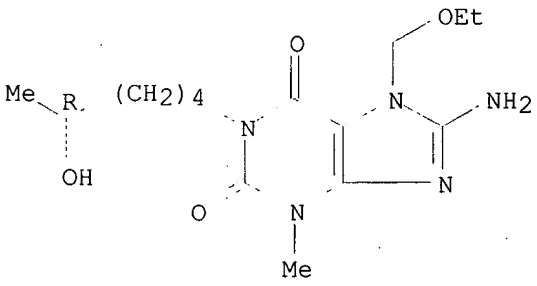
AB Therapeutic compds. I [R1 = H, Me, (un)substituted C5-9-alkyl, C5-9-alkenyl, C5-9-alkynyl, C3-8-hydroxyalkyl, C3-8-alkoxy, C5-9-alkoxyalkyl; R2, R3 = H, halo, oxo, (un)substituted C1-20-alkyl, C1-20-hydroxyalkyl, C(1-20)thioalklyl, C1-20-alkylamino, C1-20-alkylaminoalkyl, C1-20-aminoalkyl, C1-20-aminoalkoxyalkenyl, C1-20-aminoalkoxyalkynyl, C1-20-diaminoalkyl, C1-20-triaminoalkyl, C1-20-tetraaminoalkyl, C5-15-aminotrialkoxyamino, C1-20-alkylamido, C1-20-alkylamidoalkyl, C1-20-amidoalkyl, C1-20-acetamidoalkyl, C1-20-alkenyl, C1-20-alkynyl, C3-8-alkoxyl, C1-11-alkoxyalkyl, and C1-20-dialkoxyalkyl; with the proviso that R1 .noteq. .omega.-1 secondary alc. substituted C5-8-alkyl; X, Y = NR3, R3 = C1-3-alkyl; Z = CR3, R3 = C1-3-alkyl; dashed lines are single or double bonds] pharmaceutically acceptable derivs. (e.g., resolved enantiomers, diastereomers, tautomers, salts and solvates thereof) or prodrugs thereof are described. Thus, CT11495 [I; R1 = Me R2 = (CH2)4CH(OH)Me-(R), X = NMe, YZ= N:CH] was prepd., via N-alkylation of 1,7-dimethylxanthine (I; R1 = Me R2 = H, X = NMe, YZ= N:CH) with (R)-5-acetoxy-1-bromohexane followed by O-deacetylation. These novel heterocyclic compds. I having a six membered ring structure fused to a five membered ring structure are found to be useful for the treatment and prevention of symptoms or manifestations assocd. with disorders affected by Interleukin-12 ("IL-12") intracellular signalling, such as, for example, Th1 cell-mediated disorders.

IT **301328-80-3DP**, libraries
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of xanthine derivs. and analogs as cell signaling inhibitors)

RN 301328-80-3 HCAPLUS

CN 1H-Purine-2,6-dione, 8-amino-7-(ethoxymethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

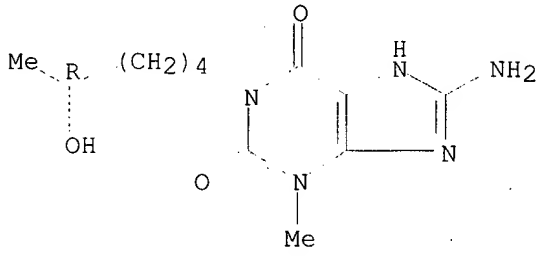


IT **301328-81-4DP**, 8-Amino-1-[(R)-5-Hydroxyhexyl]-3-methylxanthine,

libraries **301536-55-0P**, CT 12440 **301536-56-1P**, CT 12441 **301536-57-2P**, CT 12447 **301536-64-1P**, CT 12481
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of xanthine derivs. and analogs as cell signaling inhibitors)

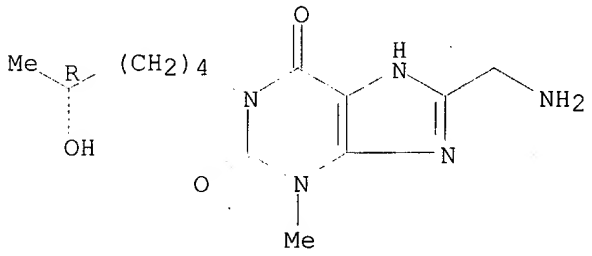
RN 301328-81-4 HCAPLUS
CN 1H-Purine-2,6-dione, 8-amino-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



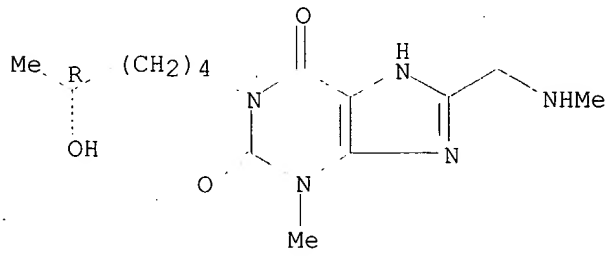
RN 301536-55-0 HCAPLUS
CN 1H-Purine-2,6-dione, 8-(aminomethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 301536-56-1 HCAPLUS
CN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-8-[(methylamino)methyl]- (9CI) (CA INDEX NAME)

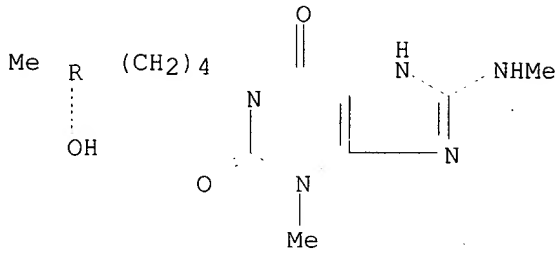
Absolute stereochemistry.



RN 301536-57-2 HCAPLUS
CN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-8-

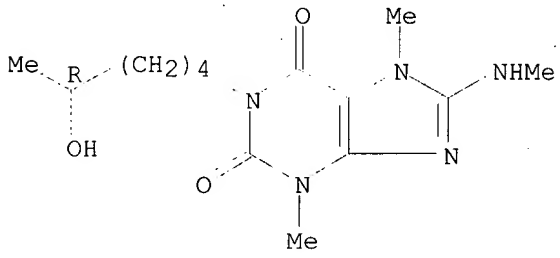
(methylamino)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 301536-64-1 HCAPLUS
CN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3,7-dimethyl-8-(methylamino)- (9CI) (CA INDEX NAME)

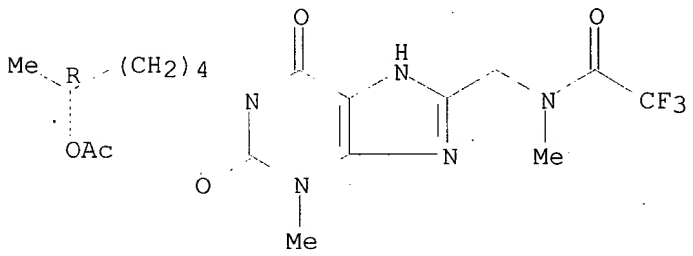
Absolute stereochemistry.



IT **301329-00-0P 301329-01-1P 301329-37-3P**
**301329-38-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of xanthine derivs. and analogs as cell signaling inhibitors)

RN 301329-00-0 HCAPLUS
CN Acetamide, N-[[1-[(5R)-5-(acetyloxy)hexyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]methyl]-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

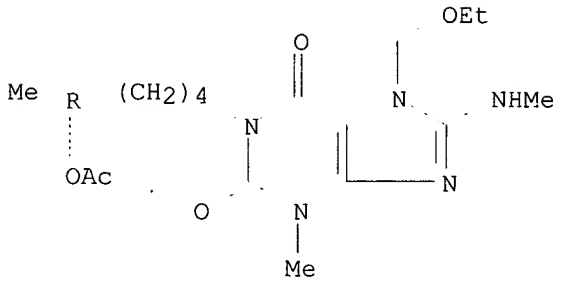
Absolute stereochemistry.



RN 301329-01-1 HCAPLUS
CN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetyloxy)hexyl]-7-(ethoxymethyl)-3,7-dihydro-3-methyl-8-(methylamino)- (9CI) (CA INDEX NAME)

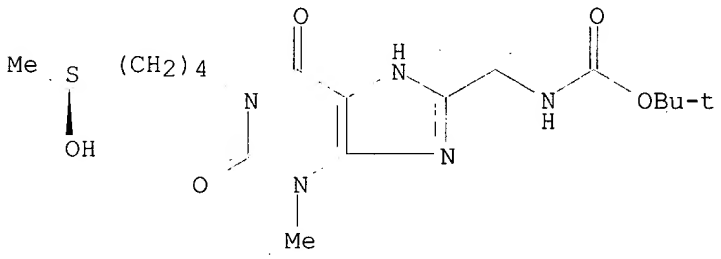
Bahar 09/544,984

Absolute stereochemistry.



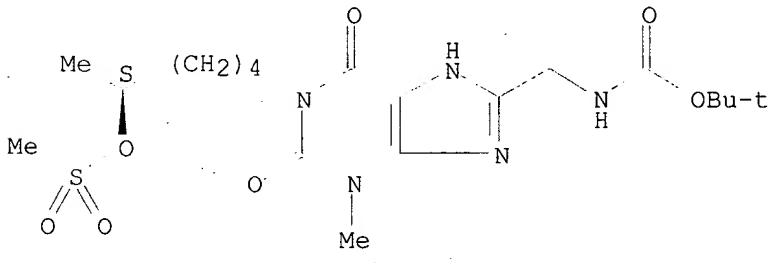
RN 301329-37-3 HCAPLUS
CN Carbamic acid, [[2,3,6,7-tetrahydro-1-[(5S)-5-hydroxyhexyl]-3-methyl-2,6-dioxo-1H-purin-8-yl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 301329-38-4 HCAPLUS
CN Carbamic acid, [[2,3,6,7-tetrahydro-3-methyl-1-[(5S)-5-[(methylsulfonyl)oxy]hexyl]-2,6-dioxo-1H-purin-8-yl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Search completed by David Schreiber 308-4292